

Allen County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

5/24/2016

Using the most recent IMPLAN data available (2014) adjusted for 2016, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Allen County economy.¹

These 17 sectors have a total direct output of approximately **\$357.3 million** and support **1,350.7 jobs** in Allen County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Allen County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	1,350.7	14.11%	\$83,378,008.65	14.31%	\$357,280,847.10	61.32%
Indirect Effect	174.1	1.82%	\$13,555,011.99	2.33%	\$26,422,267.73	4.53%
Induced Effect	171.9	1.80%	\$11,295,555.64	1.94%	\$20,396,043.32	3.50%
Total Effect	1,696.8	17.73%	\$108,228,576.28	18.58%	\$404,099,158.16	69.36%

As shown in the above table, agriculture, food, and food processing sectors support **1,696.8 jobs**, or **17.73%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$404.1 million**, roughly **69.4% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 17 agriculture, food, and food processing sectors is approximately **\$108.2 million**, or **18.6% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **18.6% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **1,013.4 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Allen County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Description	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1013.4	\$109,701,141.12
Confectionery manufacturing from purchased chocolate	855.6	\$256,248,636.76
Meat processed from carcasses	579.5	\$271,225,347.92
All other crop farming	92.3	\$7,189,694.18
Wholesale trade	78.2	\$15,144,698.14
Real estate	46.3	\$7,552,290.84
Grain farming	44.1	\$16,299,084.28
Farm machinery and equipment manufacturing	38.3	\$21,065,215.24
Limited-service restaurants	34.8	\$2,681,959.40
Support activities for agriculture and forestry	33.7	\$4,154,782.34

The meat processed from carcasses sector directly contributes approximately **\$271.2 million** to the Allen County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Sectors by Output		
Sector	Total Employment	Total Output
Meat processed from carcasses	579.5	\$271,225,347.92
Confectionery manufacturing from purchased chocolate	855.6	\$256,248,636.76
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1013.4	\$109,701,141.12
Farm machinery and equipment manufacturing	38.3	\$21,065,215.24
Oilseed farming	16.9	\$19,227,738.10
Grain farming	44.1	\$16,299,084.28
Wholesale trade	78.2	\$15,144,698.14
Owner-occupied dwellings	0.0	\$9,005,218.64
Dairy cattle and milk production	12.6	\$7,703,382.48
Real estate	46.3	\$7,552,290.84

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Allen County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	8.6	\$9,613,868.71
Grain farming	22.4	\$8,149,541.85
Vegetable and melon farming	0.1	\$29,326.76
Tree nut farming	0.0	\$2,457.12
Greenhouse, nursery, and floriculture production	2.2	\$646,827.64
All other crop farming	46.8	\$3,594,846.96
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	500.2	\$54,850,570.68
Dairy cattle and milk production	6.2	\$3,851,691.25
Poultry and egg production	0.1	\$165,499.99
Animal production, except cattle and poultry and eggs	3.7	\$440,001.34
Commercial logging	1.6	\$104,333.17
Confectionery manufacturing from purchased chocolate	438.2	\$128,124,313.35
Meat processed from carcasses	296.8	\$135,612,670.90
Bread and bakery product, except frozen, manufacturing	5.5	\$595,447.36
Frozen cakes and other pastries manufacturing	0.3	\$44,695.01
Farm machinery and equipment manufacturing	19.9	\$10,532,608.03
Veterinary services	11.6	\$922,138.63

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Allen County, the retail sector was omitted.